Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) An anastomosis device, comprising:

a first plurality of arcuate members arranged in a first position in a cylindrical crown shape with each arcuate member having a pair of legs with a free end on each leg and an arcuate bend therebetween and with each leg overlapping at least one leg of an adjacent arcuate member;

a second plurality of arcuate members arranged in a first position in an inverted cylindrical crown shape with each arcuate member having a pair of legs with a free end on each leg and an arcuate bend therebetween, and with each leg overlapping at least one adjacent arcuate member of the second plurality;

a plurality of coupling members ~~joining~~ wherein ~~an~~ one free end of each leg of the first plurality of arcuate members is fixedly joined with a respective free end of a corresponding leg of the second plurality of arcutate members by a coupling member to form the anastomosis device with the plurality of coupling members joining~~, wherein the joining by the coupling members brings at least a portion of~~ the free end of each leg of the first plurality of arcuate members into direct contact with ~~least a portion of~~ the respective free end of a corresponding leg of the second plurality of arcuate members;

wherein, when the ~~connected~~ joined first and second plurality of arcuate members are in a first position, the anastomosis device forms a woven hollow tube with the first and second plurality of arcuate members extending proximally and distally respectively in a slidably woven sinusoid with the arcuate bends of the first plurality of arcuate members at a distal end of the anastomosis device and the arcuate bends of the second plurality of arcuate members at a proximal end of the anastomosis device, the woven hollow tube formed by the anastomosis device defining a longitudinal axis between the proximal end and the distal end and the coupling members ~~defining~~ joining the free ends of the connected first and second plurality of arcuate members into a circle of discrete couplings about a midpoint of the longitudinal axis; and

wherein the woven hollow tube formed by the anastomosis device is operably configured to transform into a second position forming a substantially flattened hollow rivet shape with each arcuate member of the first plurality of arcuate members being outwardly deflected from the longitudinal axis toward apposing arcuate members of the second plurality of arcuate members, wherein the first and second plurality of arcuate members are deflectable from the longitudinal axis by pivoting each of the joined first and second plurality of arcuate members about their respective coupling member to bring the distal end of the anastomosis device and the first plurality of arcuate members into circular juxtaposition with the proximal end of the anastomosis device and the second plurality of arcuate members.

2. through 13. (canceled)

14. (Currently amended) A method of forming an anastomosis device, comprising:

~~forming a first plurality of arcuate members;~~

arranging the first plurality of arcuate members into a first position in a cylindrical crown shape with each arcuate member of the first plurality of arcuate members having a bend with a pair of legs extending therefrom with each leg having a free end and each leg ~~legs~~ overlapping at least one leg of an adjacent arcuate member of the first plurality of arcuate members;

~~forming a second plurality of arcuate members;~~

arranging in a first position in an inverted cylindrical crown shape with each arcuate member of the second plurality of arcuate members having a bend with a pair of legs extending therefrom with each leg having a free end and each leg ~~legs~~ overlapping at least one leg of an adjacent arcuate member of the second plurality of arcuate members; and

connecting ~~an~~ a free end of each leg of an arcuate member of the first plurality of arcuate members to ~~an~~ a free end of a respective adjacent leg of an arcuate member of the second plurality of arcuate members with a corresponding connecting member ~~to~~ fixedly ~~secure~~ connecting ~~to fixedly secure~~ the free ends of the legs together in direct contact with each other, ~~wherein the act of connecting results in~~ thereby making a

slidably woven tube ~~being formed by~~ having the first plurality of arcuate members about a proximal portion of the slidably woven tube, the second plurality of arcuate member about a distal portion of the slidably woven tube, and the connecting members in a circle around the slidably woven tube between the proximal and the distal portions;

~~wherein the slidably woven tube is operably configured to transform from the slidably woven hollow tube into a second position forming a substantially flattened hollow rivet shape with each arcuate member outwardly deflected from a longitudinal axis of its respective cylindrical crown toward apposing arcuate members of the other cylindrical crown by pivoting each of the joined first and second plurality of arcuate members about their respective connecting member to bring the first plurality of arcuate members into circular juxtaposition with the second plurality of arcuate members~~.

15. (Currently amended) The method of claim 14, wherein ~~forming~~ at least one of the first and second pluralities of arcuate members ~~further comprises bending~~ further comprise a length of shape memory effect alloy wire.

16. (canceled)

17. (Currently amended) The method of claim 14, wherein the free end of each leg includes at least a portion of a snap fit connector and the step of attaching one of the free ends of the first plurality to the free end of the respective adjacent leg of the second plurality further comprises affixing the snap fit connectors together.

18. (Currently amended) The method of claim 14, wherein attaching one of the free ends of the first plurality to the end of the respective adjacent leg of the second plurality further comprises applying a glue material to each pair of contacting free ends of the first and second pluralities of arcuate members.

19. (Currently amended) The method of claim 14, wherein attaching one of the plurality of connecting members legs of the first and second pluralities further comprises

ultrasonically welding each free end of the first plurality of arcuate members with the respective free end of the second plurality of arcuate members.

20. (Currently amended) The method of claim 14, wherein attaching one of the plurality of connecting members between aligned legs of the first and second pluralities further comprises applying a thermally melted adhesive to the free ends of the first and second pluralities of arcuate members.